

Title (en)
METHODS AND SYSTEMS UTILIZING RECIRCULATING FLUID FLOWS

Title (de)
VERFAHREN UND SYSTEME MIT VERWENDUNG VON RÜCKFÜHRENDEN FLUIDUMSTRÖMEN

Title (fr)
PROCÉDÉS ET SYSTÈMES UTILISANT DES ÉCOULEMENTS DE FLUIDE DE RECIRCULATION

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Abstract (en)
[origin: WO2019021061A1] One aspect of the invention provides a system for dispensing and printing cells and particles. The system includes: (a) a flow confinement device; (b) a controller configured to generate a confined liquid volume outside the flow confinement device, wherein the confined liquid volume or materials contained in the confined liquid volume can be released to the environment by confined, modulated, and non-confined flow modes in arbitrary sequence and for arbitrary periods of time by said controller; (c) one or more liquids containing cells or cell constituents supplied into the confined liquid volume through the flow confinement device; (d) a substrate; and (e) a system configured to position the flow confinement device in 3D space and, therefore, the confined liquid volume to be positioned relative to the substrate, such that the confined liquid volume and contents, can interact with the substrate.

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